

## CHAPTER OVERVIEW

### 4: The Basics of Chemistry

The chapters in this unit are absolutely essential for anyone embarking on the serious study of Chemistry. The material covered here will be needed in virtually every topic you will encounter in the remainder of your first-year course, as well as in subsequent Chemistry courses — so you might as well master it now!

[4.1: Atoms, Elements, and the Nucleus](#)

[4.2: Avogadro's Number and the Mole](#)

[4.3: Formulas and Their Meaning](#)

[4.4: Chemical Equations and Stoichiometry](#)

[4.5: Introduction to Chemical Nomenclature](#)

[4.6: Significant Figures and Rounding](#)

Thumbnail: Spinning Buckminsterfullerene ( $C_{60}$ ). (CC BY-SA 3.0; unported; [Sponk](#)).

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